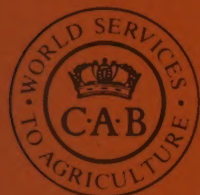


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TABLE 1. TREE FRUITS AND GRAPEVINES														
	General	Miscellaneous	Selection and varieties	Propagation and planting	Climate and pollution	Management	Soils and nutrition	Crop protection	Physiology and biochemistry	Reproduction	Harvesting and handling	Quality	Byproducts	
Almonds	3	50	126	184	250	332	430	505	565	621	683	737		
Apples	—	50	126	184	250	332	430	505	—	—	683	737		
General	—	—	—	—	—	332	—	—	565	621	—	737		
Selection and varieties	3	50	—	185	—	—	—	—	565	—	—	—		
Propagation and planting	—	50	—	185	—	332	430	505	566	—	683	738		
Climate and pollution	3	50	126	185	—	332	430	—	566	621	683	—		
Management	—	—	—	185	250	332	430	505	566	—	—	—		
Soils and nutrition	3	—	126	—	—	—	—	505	566	—	683	—		
Crop protection	3	—	—	—	—	—	—	—	—	—	683	738		
Physiology and biochemistry	—	—	126	—	—	333	—	—	—	—	—	738		
Reproduction	3	—	126	185	250	—	430	—	—	621	683	738		
Harvesting and handling	—	—	—	—	—	333	431	—	—	621	—	—		
Quality	—	—	—	—	—	—	—	—	—	—	—	—		
Byproducts	3	50	126	185	250	333	431	—	566	621	683	738		
Apples	4	50	126	185	251	333	431	505	566	621	684	739		
General	4	50	126	185	—	333	—	—	566	621	—	—		
Selection and varieties	4	51	126	186	251	333	431	505	566	621	684	739		
Propagation and planting	4	51	127	186	251	334	431	505	567	621	684	739		
Climate and pollution	5	51	128	187	—	335	432	—	568	622	—	741		
Management	5	52	128	187	252	335	432	506	568	622	684	741		
Soils and nutrition	6	52	128	188	253	336	433	506	568	623	685	—		
Crop protection	6	53	128	188	254	336	433	506	569	623	685	742		
Physiology and biochemistry	6	53	129	189	255	337	434	507	570	623	686	743		
Reproduction	6	54	129	189	255	338	434	508	570	624	686	744		
Harvesting and handling	7	54	129	189	256	339	435	508	571	625	687	745		
Quality	—	—	130	190	257	340	437	509	571	627	688	745		
Byproducts	—	—	—	—	—	—	—	509	—	—	—	—		
Apricots	7	55	130	190	258	340	437	509	571	627	688	745		
Cherries	7	56	130	190	258	341	437	509	572	627	688	746		
Chestnuts	—	—	—	—	—	342	438	510	—	628	689	747		
Cobnuts and hazels	9	57	131	192	259	342	438	510	572	—	689	747		
Figs	—	—	—	—	—	343	438	—	—	628	689	—		
Mulberries	—	57	—	—	—	—	—	—	572	—	689	—		
Peaches and nectarines	9	57	131	192	259	343	438	510	572	628	689	748		
Pears	10	59	132	192	260	344	439	511	572	629	690	749		
Pecans and hickories	—	60	—	193	261	346	441	—	573	630	691	749		
Pistachios	—	—	—	—	262	346	—	512	574	630	691	750		
Plums, prunes and damsons	10	61	133	193	262	346	441	512	574	630	691	750		
Quinces	11	—	133	—	262	346	441	—	—	—	—	—		
Walnuts	11	61	133	193	262	346	442	512	574	631	692	751		
Sundry crops	—	62	—	—	262	347	442	512	575	631	—	751		
SMALL FRUITS AND GRAPEVINES														
General	—	62	133	—	263	347	442	512	575	631	692	751		
<i>Actinidia</i> species	11	62	133	193	263	—	442	—	575	631	692	751		
Currants	11	62	133	193	263	347	442	512	575	632	692	752		
Gooseberries	—	62	134	—	—	347	443	—	575	—	—	752		
Minor <i>Ribes</i> species	—	—	—	—	—	—	—	—	—	—	—	—		

SMALL FRUITS AND GRAPEVINES (continued)

Blackberries	—	62	134	—	263	347	443	513	575	—	—	752
Raspberries	11	63	134	193	263	347	443	513	575	632	693	753
Minor <i>Rubus</i> species	12	—	135	—	—	—	—	513	—	632	—	—
<i>Vaccinium</i> species	12	63	135	193	—	348	443	513	576	632	693	753
Strawberries	12	64	135	194	263	349	444	513	576	633	693	753
Grapevines	13	65	136	195	264	351	445	515	577	634	694	755
General	—	65	136	195	264	351	445	—	—	634	—	—
Selection and varieties	13	65	136	196	264	351	445	515	577	634	694	755
Propagation and planting	14	65	137	196	264	352	446	515	577	634	694	755
Climate and pollution	—	66	—	196	—	—	446	516	578	635	—	—
Management	14	66	137	196	264	352	446	516	578	635	694	756
Soils and nutrition	14	67	137	197	265	353	447	517	579	—	—	756
Crop protection	15	67	—	197	266	353	448	517	579	635	695	757
Physiology and biochemistry	15	67	137	197	267	354	448	518	580	636	696	757
Reproduction	15	68	138	198	268	354	448	518	580	636	—	757
Harvesting and handling	15	69	138	199	269	355	448	519	580	—	696	758
Quality	—	69	138	199	269	355	—	519	581	636	696	758
Byproducts	—	—	—	199	—	—	—	—	—	—	—	—
Sundry crops	—	—	—	—	269	356	—	—	—	636	696	758

VEGETABLES, TEMPERATE, TROPICAL AND GREENHOUSE

General	16	69	138	199	269	356	449	519	581	637	696	759
Alliaceae	16	70	139	200	270	356	449	520	581	637	697	759
Garlic	16	70	139	200	270	356	449	520	581	637	697	759
Leeks	—	—	—	200	—	357	449	520	—	637	697	—
Onions	16	71	139	200	270	357	449	520	582	637	697	759
Other <i>Allium</i> species	—	72	140	201	—	358	—	521	—	—	—	—
Chenopodiaceae	17	73	140	201	271	358	450	521	583	639	698	760
Beetroot	—	73	—	201	—	358	450	521	583	639	698	760
Spinach	17	73	140	201	271	359	450	521	583	639	698	760
Spinach beet	—	—	—	—	271	—	—	—	—	—	—	—
Compositae	17	73	141	201	271	359	451	521	583	639	698	760
Artichokes (Jerusalem)	17	73	141	201	271	359	451	—	—	639	698	—
Artichokes (globe)	17	—	141	201	271	359	—	521	—	—	698	760
Cardoons	—	—	—	—	—	—	—	—	—	—	—	760
Chicory	17	—	141	202	272	359	451	—	583	639	—	760
Endive	—	73	—	—	—	—	—	521	—	—	—	—
Lettuce	17	73	141	202	272	360	451	521	583	639	698	761
Salsify	—	—	—	—	—	—	—	—	—	—	—	—
Scorzonera	—	—	—	—	—	361	—	—	—	—	699	761
Other Compositae	—	—	—	—	273	—	—	—	584	—	—	—
Cruciferae	18	74	142	203	273	361	453	522	584	640	699	761
Brassicacae	18	74	142	203	273	361	453	522	584	640	699	761
Cress	19	75	—	—	275	363	454	—	585	—	700	763
Radishes	19	75	142	204	275	363	454	523	585	641	700	763
Watercress	—	—	—	204	—	—	—	—	—	—	—	—
Cucurbitaceae	19	76	143	204	275	363	454	523	585	642	700	763
Leguminosae	21	78	144	206	277	366	457	525	586	644	702	766
Beans (<i>Phaseolus</i>)	21	78	144	206	277	366	457	525	586	644	702	766
General	—	—	144	—	—	—	—	525	—	—	—	—
Selection and varieties	—	78	—	—	—	—	—	—	586	—	702	—
Propagation and planting	21	—	—	—	277	366	—	525	—	—	702	766
Climate and pollution	21	78	144	206	277	366	—	525	—	644	—	766
Management	—	78	144	206	278	366	—	525	—	—	703	766
Soils and nutrition	21	79	—	207	278	—	457	525	586	644	703	767
Crop protection	—	—	—	—	278	—	—	—	—	—	703	—
Physiology and biochemistry	22	79	144	207	278	367	457	526	586	644	704	767
Reproduction	22	80	—	—	280	—	—	526	—	—	—	767
Harvesting and handling	—	—	144	—	—	—	458	526	—	—	—	—
Quality	—	—	—	208	—	—	—	—	—	—	—	769
Beans (<i>Vicia</i>)	22	80	145	208	—	368	458	526	587	644	705	769
Beans (<i>Cyamopsis</i>)	—	81	—	—	—	—	—	—	—	—	705	769
Peas	22	81	145	209	280	368	458	526	587	645	705	769
Other Leguminosae	23	82	145	211	—	369	—	—	—	—	707	772
Liliaceae — Asparagus	23	82	145	211	281	369	459	527	—	—	707	772
Malvaceae — Okra	23	83	—	211	281	369	459	528	—	645	707	773
Polygonaceae — Rhubarb	—	83	—	—	—	—	—	—	588	—	—	—
Solanaceae	24	83	145	211	282	370	459	528	588	646	707	773
Capsicums	24	83	145	211	282	370	459	528	588	646	707	773
Eggplants	24	83	147	212	282	371	461	528	589	646	—	774
Tomatoes	24	84	147	212	282	371	461	529	589	646	708	774
General	24	—	147	212	—	371	461	529	—	—	708	—
Selection and varieties	24	84	147	212	282	371	461	529	589	646	—	774
Propagation and planting	24	—	147	213	283	372	461	529	589	647	—	774
Climate and pollution	—	—	148	213	—	372	—	—	589	—	—	775

VEGETABLES, TEMPERATE, TROPICAL AND GREENHOUSE (continued)

Management	25	84	148	213	283	372	461	529	589	647	708	775
Soils and nutrition	25	84	148	214	283	373	463	530	590	647	708	776
Crop protection	25	85	148	215	284	374	463	531	590	648	709	776
Physiology and biochemistry	25	85	148	215	285	375	463	531	590	648	709	777
Reproduction	26	86	149	215	286	375	464	531	590	649	709	778
Harvesting and handling	26	86	149	215	—	376	464	531	591	649	709	778
Quality	—	—	—	216	—	376	464	532	591	—	709	778
Umbelliferae	26	87	149	216	286	376	464	532	592	650	709	778
Carrots	26	87	149	216	286	376	464	532	592	650	—	778
Parsnips	—	87	—	—	—	377	—	—	592	—	—	—
Celery	26	87	150	—	—	377	465	532	592	650	709	779
Celeriac	—	—	150	—	—	—	—	533	—	650	710	—
Sundry crops	26	87	150	217	286	378	465	533	592	650	710	780
Mushrooms	27	87	151	217	286	378	465	534	592	651	710	780
Other fungi	—	—	—	—	286	—	—	—	—	—	—	—

ORNAMENTAL PLANTS

General	27	87	151	219	286	379	465	534	593	651	710	780
Antirrhinums	—	—	151	220	287	380	—	535	—	652	711	781
Carnations and pinks	28	88	151	220	288	380	466	535	594	652	711	781
Chrysanthemums	28	88	152	220	288	381	467	535	594	653	711	781
Gerberas	28	89	—	—	289	382	467	535	595	—	712	782
Morning glories	—	89	—	221	290	382	—	536	—	654	712	782
Pelargoniums	28	89	153	221	290	382	467	536	595	—	712	783
Petunias	29	90	153	221	290	383	468	536	595	654	712	783
Primulas	—	90	153	221	—	383	—	—	—	—	712	783
Saintpaulias	—	—	153	—	291	383	468	536	596	—	713	784
Other annual and herbaceous plants	29	90	153	222	291	383	468	536	596	654	713	784
Bulbs, tubers, etc. — general	30	91	—	—	292	—	—	—	—	—	—	—
Anemones	—	—	—	222	—	385	470	—	596	—	—	—
Begonias	30	—	—	222	292	385	470	538	—	—	714	785
Crocuses	—	—	—	—	292	—	470	—	596	—	—	786
Cyclamen	—	91	155	223	292	385	—	538	597	—	—	786
Dahlias	—	—	—	—	292	—	—	538	597	—	—	—
Freesias	—	91	155	223	—	386	470	—	597	655	—	—
Gladioli	30	92	155	223	292	386	470	538	597	655	714	786
Gloxinias	31	—	—	—	—	386	—	539	—	—	—	—
Hyacinths	—	—	—	223	—	386	—	—	597	—	—	786
Iris	31	92	155	224	—	387	470	539	597	—	714	786
Lilies	31	92	155	224	293	387	470	539	597	656	714	786
Narcissi	31	—	155	224	293	388	471	539	—	—	715	787
Nerines	—	93	—	—	—	388	—	—	—	—	—	787
Tulips	31	93	—	224	293	388	471	540	598	—	—	787
Other bulbs, tubers, etc.	32	93	155	225	293	389	472	540	598	656	715	788
Lawns and other turf	32	93	156	225	294	390	472	540	598	657	715	788
Aquatic plants	—	—	—	—	—	—	—	—	—	—	—	788
Bromeliads	—	—	157	—	294	391	—	541	—	—	—	—
Other foliage and succulent plants	32	95	157	225	294	391	473	541	598	657	716	788
Orchids	33	97	158	226	296	392	474	542	599	659	717	790
Trees and shrubs — general	33	97	158	226	297	393	474	543	599	659	717	790
Bougainvilleas	33	98	—	—	298	394	475	—	—	659	—	791
Camellias	33	—	159	227	298	394	—	543	600	—	—	—
Conifers	34	98	159	228	299	394	476	543	600	660	717	791
Heaths and heathers	—	98	159	228	—	—	—	—	600	660	718	—
Hollies	34	99	—	—	299	394	476	543	600	660	718	791
Hydrangeas	—	99	—	228	—	395	476	543	—	—	—	—
Ivies	34	—	—	228	299	—	—	—	—	—	—	791
Jasmines	—	—	—	—	—	395	476	—	—	660	—	791
Lilacs	—	—	—	—	—	—	—	—	—	—	—	—
Magnolias	—	—	—	228	299	395	476	544	600	—	718	792
Poinsettias	34	99	159	228	299	395	476	544	601	660	718	792
Rhododendrons and azaleas	34	99	160	228	299	395	476	544	601	660	718	792
Roses	34	99	160	229	300	396	477	544	601	661	718	793
Other trees and shrubs	35	100	161	229	300	397	477	545	602	662	719	793

MINOR TEMPERATE AND TROPICAL INDUSTRIAL CROPS

General	—	101	161	—	302	399	—	—	—	—	—	—
Condiment and spice plants	36	101	161	230	302	400	479	547	603	663	720	796
Dye plants	36	101	162	231	—	400	480	—	604	663	720	797
Essential oil plants	36	102	162	231	302	400	480	547	604	663	720	797
Hard fibre plants	37	103	162	—	303	—	481	—	605	664	721	798
Hops	37	103	162	—	303	402	481	549	—	664	721	798
Insecticidal and other pesticidal plants	—	104	163	232	303	402	481	549	605	664	721	799
Medicinal plants	37	104	163	232	303	402	481	549	605	664	721	799

—	—	409	486	553	609	—	—	80
235	309	409	487	—	609	668	725	80

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COMMONWEALTH AGRICULTURAL BUREAUX

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SYMBOLS FOR UNITS

Symbol	Unit or Prefix	Symbol	Unit or Prefix	Symbol	Unit or Prefix
a	are	g	gramme	μ bar	microbar
A	ampere	G	giga-	min	minute (time)
Å	angstrom	gal	gallon	mol	mole
atm	standard atmosphere	h	hecto-	n	nano-
Btu	British thermal unit	h	hour	Ω	ohm
bu	bushel	hp	horsepower	oz	ounce
c	centi-	hz	hertz	p	pico-
$^{\circ}$ C	degree Celsius	in	inch	pt	pint
cal	calorie	J	joule	q	quintal
cd	candela	k	kilo-	qt	quart
Ci	curie	l	litre	R	roentgen
ctl	cental	lb	pound	rad	rad (amount of absorbed radiation)
cwt	hundredweight	lbf	pound-force	s	second (time)
d	deci-	lm	lumen	t	tonne (metric ton)
da	deca-	lx	lux	T	tera-
erg	erg	m	metre	ton	ton
f	femto-	m	milli-	V	volt
$^{\circ}$ F	degree Fahrenheit	mbar	millibar	W	watt
fl oz	fluid ounce	M	mega-	yd	yard
ft	foot	μ	micro-		

SYMBOLS FOR LANGUAGES

Af	Afrikaans	Fi	Finnish	Nl	Dutch and Flemish
Ar	Arabic	Fr	French	No	Norwegian
Be	Belorussian	Gr	Greek	Pl	Polish
Bg	Bulgarian	He	Hebrew	Pt	Portuguese
Ch	Chinese	Hu	Hungarian	Ro	Romanian
Cs	Czech	In	Indonesian	Ru	Russian
Da	Danish	It	Italian	Sh	Serbo-Croat
De	German	Ja	Japanese	Sk	Slovak
Ee	Estonian	Ko	Korean	Sn	Slovene
En	English	Li	Lithuanian	Sv	Swedish
Eo	Esperanto	Lv	Latvian	Tr	Turkish
Es	Spanish	Ma	Macedonian	Uk	Ukrainian

Symbols with capitals represent the language of the paper; symbols without capitals the summaries.

ERRATA

(lines are counted from the beginning of the bibliographic data in each item)

Volume 52

Page	Abstract	Line	
10	108	13	for ' <i>P. betulaefolia</i> ' read ' <i>P. betulifolia</i> '
22	234	1	for 'ISMAIL, A.M.A.' read 'ISMAIL, A.M.A.; SAGAR, G.R.'
107	1111	3	for ' <i>dauricum</i> ' read ' <i>dahuricum</i> '
107	1111	8	for ' <i>dauricum</i> ' read ' <i>dahuricum</i> '
122	1284	7	for ' <i>Dodonea</i> ' read ' <i>Dodonaea</i> '
124	1298	3	for '1 and 2 (115)' read 'No. 115 (Vols I and II)'
126	1333	3	for '1 (115)' read 'No. 115 (Vol. I)'
141	1499	3	for '1 (115)' read 'No. 115 (Vol. I)'
142	1513	11	for 'ethoprop' read 'ethoprop [prophos]'
148	1573	13	for ' <i>Paratrichodorus</i> ' read ' <i>Paratrichodorus christiei</i> '
149	1579	4	for '1 (115)' read 'No. 115 (Vol. I)'
160	1695	3	for '1 (115)' read 'No. 115 (Vol. I)'
177	1892	2	for 'ZAMBELO JUNIOR, E.' read 'ZAMBELLO JÚNIOR, E.'
182	1955	1	for 'SANA, R.S.' read 'RANA, R.S.'
338	3573	8	for 'the clusters' read 'the percentage of clusters'
339	3573	11	for 'the clusters' read 'the percentage of clusters'
391	4077	3	for ' <i>Euphorbia millii</i> ' read ' <i>Euphorbia milii</i> '
391	4077	6	for ' <i>Euphorbia millii</i> ' read ' <i>Euphorbia milii</i> '
410	4311	3	for ' <i>E. millii</i> ' read ' <i>E. milii</i> '
410	4311	7	for ' <i>E. millii</i> ' read ' <i>E. milii</i> '
410	4311	12	for ' <i>E. millii</i> ' read ' <i>E. milii</i> '
513	5307	1	for 'MACKERRON, D.K.L.' read 'MACKERRON, D.K.L.'
518	5361	14	for 'decreaser area' read 'decreased the yield of the second crop (from lateral shoots) and cluster'
551	5735	7	for ' <i>philippiana</i> ' read ' <i>philippiana [aromatica]</i> '
571	5940	12	for ' CA^{2+} ' read ' Ca^{2+} '
578	6013	1	for 'CAWTHORN, D.L.' read 'CAWTHON, D.L.'
606	6299	4	for ' <i>currillus</i> ' read ' <i>curillus</i> '
617	6438	3	for 'En' read 'Hu'
626	6533	5	for '229-237' read '239-243'
677	7058	1	for 'GONZALES DE TRECONIS, N.' read 'GONZALES DE TROCONIS, N.'
748	7763	1	for 'SANSIVINI, S.' read 'SANSAVINI, S.'

AUTHOR INDEX

National, research and public organizations, but not commercial firms, are indexed under relevant country

All separate name particles, e.g. Di & von, are transposed to follow the initials.

Variants of author's names may appear next to each other.

Anonymous articles are indexed by publication.

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 Australia, Bureau of Sugar Experiment Stations 1258
 Australia, Council of Australian Weed Science Societies 2633
 Australia, CSIRO Division of Food Research 1918
 Australia, CSIRO Division of Irrigation Research 1934
 Australia, CSIRO Division of Plant Industry 4480
 Australia, CSIRO Institute of Animal and Food Sciences 1935
 Australia, Maroochy Horticultural Research Station 5206
 Australia, New South Wales Department of Agriculture 1301, 1936
 Australia, Plant Research Institute, Burnley 2648
 Australia, Queensland Department of Primary Industries 1937
 Australia, Sandy Trout Food Preservation Research Laboratory 33, 4481
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 German Federal Republic, Biologische Bundesanstalt für Land- und Forstwirtschaft 1294, 1938
 German Federal Republic, Bundesforschungsanstalt für Gartenbauliche Pflanzenzüchtung in Ahrensburg 6450
 German Federal Republic, Fachhochschule Weihenstephan 3481
 German Federal Republic, Forschungsanstalt für Weinbau, Gartenbau, Getränketechnologie und Landespflege, Geisenheim am Rhein 6451
 German Federal Republic, Landes- Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstrasse 1939
 German Federal Republic, Landespflanzenenschutzdienst Rheinland-Pfalz 3479
 German Federal Republic, Landwirtschaftskammer Rheinland 3480
 German Federal Republic, Staatliche Lehr- und Versuchsanstalt für Wein und Obstbau, Weinsberg 1940
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 CSIRO Division of Irrigation Research
 1934
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 Forschungsanstalt für Weinbau,
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 6451
 Landes- Lehr- und Forschungsanstalt
 für Landwirtschaft, Weinbau und
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 Landespflanzen-schutzdienst Rheinland-
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- Berrisford, J., Gardening on chalk, lime and clay 2320
- Bielka, R.; Geissler, T., Freilandgemüseproduktion [Outdoor vegetable production] 1910
- Bienz, D. R., The why and how of home horticulture 1911
- Buczacki, S. T.; Harris, K. M., Pests, diseases and disorders of garden plants 499
- Conger, B.V. [editor], Cloning agricultural plants via *in vitro* techniques 5192
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- Dommergues, Y. R.; Krupa, S. V. [editors], Interactions between non-pathogenic soil microorganisms and plants 1288
- Eremin, G. V.; Vitkovskii, V. L., Sliva [The Plum] 1912
- Feucht, W., Das Obstgehölz: Anatomie und Physiologie des Sprosssystems. [The fruit tree: anatomy and physiology of the shoot system] 7091
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- Hansen, R.; Stahl, F., Die Stauden und ihre Lebensbereiche in Gärten und Grünanlagen [Perennials and their possibilities in gardens and open spaces] 6778
- Hartmann, H. T.; Flocker, W. J.; Kofranek, A. M., Plant science. Growth, development and utilization of cultivated plants 1913
- Heiser, C. B., Jr., Seed to civilization 3460
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- Institute for Agricultural Engineering, Wageningen, Equipment for vegetable production 5198
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- Lange, O.L.; Nobel, P.S.; Osmond, C.B.; Ziegler, H. [editors], Physiological plant ecology. I. Responses to the physical environment 6439
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- Responses of plants to environmental stresses. Volume II. Water, radiation, salt and other stresses 2639
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- Prockter, N. J., Simple propagation 1916
- Purseglove, J. W.; Brown, E. G.; Green, C. L.; Robbins, S. R. J., Spices. Volumes 1 and 2 3463, 3464
- Pyzhenkov, V.I. (compiler) Ovoshchnye kul'tury zashchishchennogo grunta [vegetable crops of protected ground] 4473
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- Taranovs, V., Dārzeni zem plevēs [Vegetables under plastic] 1917
- Thorpe, T.A. [editor], Plant tissue culture. Methods and application in agriculture 5201
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